

Unit 2 – Creating Systems to Manage Information

Additional Sample Assessment Material 2019

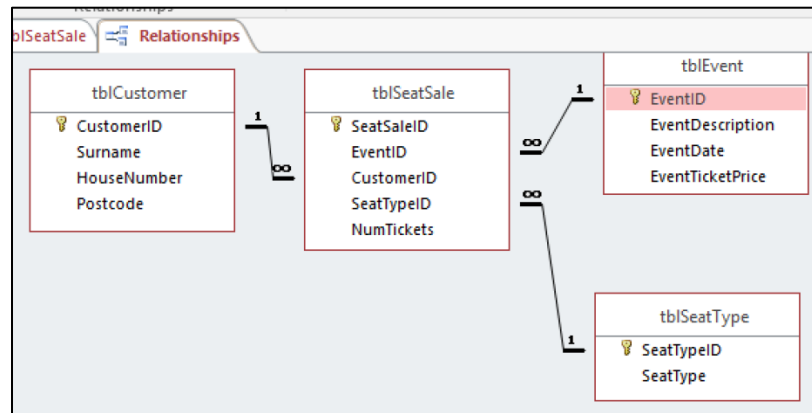
Script B

Activity	Band	Mark	Max Mark
Part A			
1 – Database Relationship Screenprint	2	4	8
2 – Table Structures	4	8	8
3 – Queries and Report	3	9	12
4 – Structure Testing	2	3	6
5 – Structure Evaluation	2	4	6
Part A Total		28	46
Part B			
6 – Interface	4	12	14
7 – Interface Testing	3	5	6
8 – Interface Evaluation	2	4	6
Part B Total		21	26
Overall Total		49	66

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Activity 3 – Queries and Report, Band 3, Marks 9	7
Activity 4 – Testing, Band 2, Marks 4	12
Activity 5 – Evaluation, Band 2, Marks 4.....	16
Activity 6 – Interface and Functionality, Band 4, 12 Marks	18
Activity 7 – Interface Testing, Band 3, 5 Marks	24
Activity 8 – Interface Evaluation, Band 2, 4 Marks	29

Activity 1 – Database Relationship Screenprint, Band 2, Marks 4



Assessment focus	Band 0	Band 1	Band 2	Band 3	Band 4	Max. mark
Activity 1: ERD screenprint	0	1-2	3-4	5-6	7-8	8
	No rewardable material	ERD shows an attempt at normalisation with significant data redundancy. ERD has some correct relationships shown.	ERD shows that most data is correctly normalised with some data redundancy. ERD has some correct relationships and some correct relationship types.	ERD shows that most data is correctly normalised with minimal data redundancy. ERD has mostly correct relationships and mostly correct relationship types shown.	The ERD shows that the data is correctly normalised with no data redundancy. ERD has correct relationships and relationship types shown throughout.	

Trait	Band	Comments
1	2	<ul style="list-style-type: none"> Learner has included an extra table with the inclusion of an extra attribute (SeatSaleID) must use all and only the attributes given. SeatType should be in the tblSeatSale Data not normalised correctly within the constraints of the data extract. Class as problems with two attributes.
2	2	<ul style="list-style-type: none"> Learner has an extra table. There is one incorrect relationship and relationship type (between the new table and the seat sale table). Classed as some correct relationships and relationship types correct.
Band	2	The learner has not normalised correctly within the constraints of the data set.

Activity 2 – Table Structures and Validation, Band 4 Marks 8

Table Structures

Add screenprints of each of your tables in design view showing the table names, field names and data types **ONLY**

tblSeatSale	
Field Name	Data Type
SeatSaleID	Number
EventID	Number
CustomerID	Number
SeatTypeID	Number
NumTickets	Number

tblCustomer	
Field Name	Data Type
CustomerID	Number
Surname	Short Text
HouseNumber	Short Text
Postcode	Short Text

tblSeatType	
Field Name	Data Type
SeatTypeID	AutoNumber
SeatType	Short Text

tblEvent	
Field Name	Data Type
EventID	AutoNumber
EventDescription	Short Text
EventDate	Date/Time
EventTicketPrice	Currency

Trait 1

- Standard naming conventions have been used for the tables
- Key fields are consistent
- Other fields are consistent

Trait 2

- Learner has identified all primary and foreign keys from their ERD in Activity 1

Trait 3

- House number is text, Event Date is date and time, Event Ticket Price is currency, Number of tickets is number, and the rest are text. All accurate

Trait 4 Validation

Presence Check

- Add a screenshot of **one** presence check

Length Check

- Add a screenshot of **one** length check

The screenshot shows the design view for the 'tblSeatType' table. The 'SeatType' field is highlighted with a red box, indicating a 'Short Text' data type. Below the field list, the 'General' tab is selected, showing the 'Field Size' property set to 10. The 'Validation Rule' is 'Is Not Null', and the 'Validation Text' is 'please select one of the seat types'. The 'Required' property is set to 'Yes'.

- Presence check and length check have been combined. This is fine
- Presence check has a weakness in that it is not one of the requirements from the list at the top of the activity.
- Field size is suitable. This is one of the text fields mentioned in the requirements for this activity.
- 10 is a reasonable length

Value Lookup or Range Check

- Add a screenshot of **one** value or **one** range check you have applied

The screenshot shows the design view for the 'tblEvent' table. The 'EventDate' field is highlighted with a red box, indicating a 'Date/Time' data type. Below the field list, the 'General' tab is selected, showing the 'Format' property set to 'Short Date'. The 'Validation Rule' is 'Is Not Null And Between #20/12/2019# And #22/12/2019#', and the 'Validation Text' is 'please enter a valid event date'. The 'Required' property is set to 'Yes'.

- Slight weakness in that the range check is not from the list of requirements given for the activity.
- The rule itself is fine as is the validation text.

Table Lookup

- Add a screenshot of **one** table lookup you have applied (foreign key only)

The screenshot shows the design view for the 'tblSeatSale' table. The 'SeatTypeID' field is highlighted with a red box, indicating a 'Number' data type. Below the field list, the 'General' tab is selected, showing the 'Display Control' property set to 'Combo Box'. The 'Row Source Type' is 'Table/Query', and the 'Row Source' is 'SELECT [tblSeatType].[SeatTypeID], [tblSeatType].[SeatType] FROM tblSeatType;'. The 'Bound Column' is 1, and the 'Column Count' is 2. The 'Column Heads' property is set to 'No'. The 'Column Widths' are '2.54cm;2.54cm'. The 'List Rows' property is set to 16, and the 'List Width' is '5.079cm'. The 'Limit To List' property is set to 'Yes'.

- Slight weakness in that the lookup is not on a foreign key mentioned in the requirements given at the top of the requirements. Entirely suitable would have been the foreign key EventID in order to ensure an invalid event could not be selected. However, it has been applied to a foreign key, does look up to the correct table and has 'Limit to List' set to 'Yes'.

Format Check

- Add a screenshot of **one** format check you have applied

The screenshot shows the design view for the 'tblCustomer' table. The 'Postcode' field is highlighted with a red box, indicating a 'Short Text' data type. Below the field list, the 'General' tab is selected, showing the 'Field Size' property set to 10. The 'Format' property is set to '>LL0\ OLL;0;_'. The 'Input Mask' property is set to '>LL0\ OLL;0;_'. The 'Required' property is set to 'Yes'.

- Format check is suitable

Activity 2: Table structure and validation	0	1-2	3-4	5-6	7-8
	No rewardable material	Uses some meaningful field and table names with some inconsistencies.	Uses meaningful field and table names with minor inconsistencies.	Uses a recognised naming convention with minor inconsistencies for fields and tables.	Uses a recognised naming convention consistently for fields and tables.
		The table structure identifies some primary and foreign key fields.	The table structure identifies most primary and foreign key fields.	The table structure identifies all primary and most foreign key fields.	The table structure identifies all primary and foreign key fields.
		The table structure has limited use of correct data types.	The table structure has correct data types for most fields.	The table structure has correct data types for most fields including matching primary and foreign key fields.	The table structure has correct data types for all fields.
		Limited use of validation which may be inaccurate.	Accurate validation rules for some of the fields that require validation.	Accurate validation rules for most of the fields that require validation.	Accurate validation rules for all fields that require validation.

Trait	Band	Comments
1	4	<ul style="list-style-type: none"> Standard naming conventions used, and all table names, key fields and other fields are consistent
2	4	<ul style="list-style-type: none"> All primary and foreign keys have been identified (matches their Activity 1)
3	4	<ul style="list-style-type: none"> All data types are correct.
4	4	<ul style="list-style-type: none"> The learner has included accurate validation rules for most of the fields that require validation. Applying the validation has been carried out correctly. The learner has not always taken into account the validation requirements given at the beginning of the activity. That is the only weakness.
Band	4	Overall there is enough evidence to show that the learner knows how to apply each of the different validation types. The only slight weakness is that some of them are not applied to the validation requirements given at the beginning of the activity. They are still valid to the data extract and scenario, so the learner has not been penalised in this instance.
Mark	8	

Activity 3 – Queries and Report, Band 3, Marks 9

qry1EventsOn20thAnd21stDecember

tblEvent

- * EventID
- EventDescription
- EventDate
- EventTicketPrice

Field:	EventDate	EventDescription	EventTicketPrice
Table:	tblEvent	tblEvent	tblEvent
Sort:		Ascending	
Show:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:	Between #20/12/2019# And #21/12/2019#		
or:			

Trait 1

- The top of the query grid has the relevant table
- All three fields in the query grid are required in order to produce the required results

Trait 2

- Includes the sort and the correct criteria for date (2 out of 2)

Trait 3

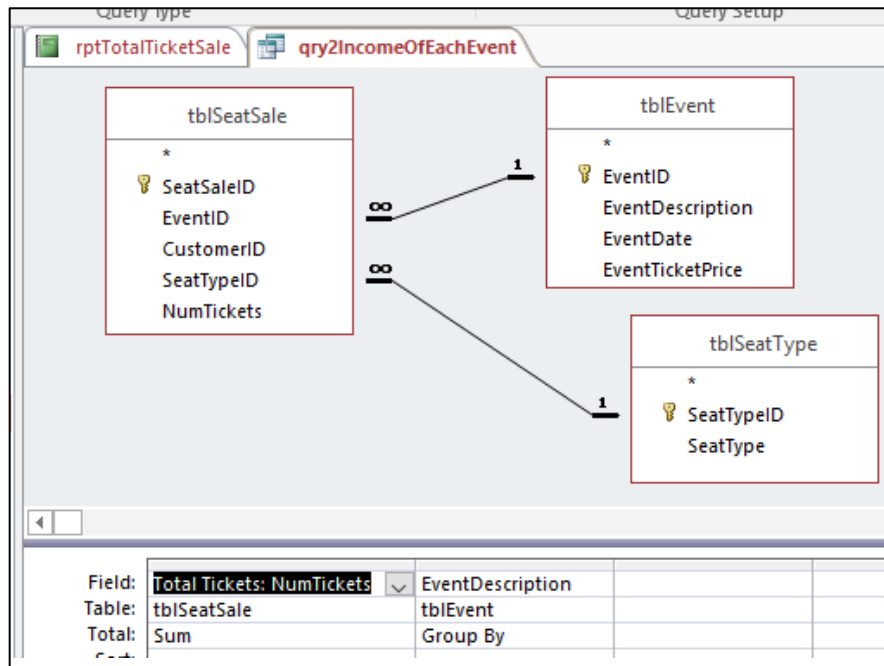
- Presentation of results aids readability and understanding. Logical order of fields and only those specified as being required have been shown

No weaknesses

Sort & Filter

qry1EventsOn20thAnd21stDecember

Event Description	Event Ticket Price
Chistmas Songtime	£10.00
The Polar Express	£15.00
*	£0.00



Trait 1

- The top of the query grid has the relevant tables (according to their solution)
- Both fields in the query grid are relevant.
- Income is missing

Trait 2

- Does not include the criterion for table and does not include generating the income. Sum has been used to generate the total tickets (1 out of 3)

Trait 3

- Presentation of results are not in a logical order. The event description should appear before the Total Tickets. However, only those specified are shown (not double penalising for income being missing). The generated field includes a sensible name

Weaknesses in all three traits.

Total Ticket:	Event Description
3	Chistmas Songtime
12	Home Alone
6	The Polar Express

rptTotalTicketSale																								
Report Header																								
Report showing the amount of tickets sold and the total income of each event.																								
Page Header																								
EventDescription		Event Date		Event Ticket Price		SeatTypeID		Num. Tickets		Total Income														
EventDescription Header																								
EventDescription																								
EventID Header																								
		EventDate		EventTicketPrice																				
Detail																								
						SeatTypeID		Num. Tickets		Total Income														
EventDescription Footer																								
										Total Income														
Page Footer																								
=Now()																						="Page " & [Page] & " of " & [Pages]		
Report Footer																								

Report showing the amount of tickets sold and the total income of each event.

EventDescription	Event Date	Event Ticket Price	SeatTypeID	Num. Tickets	Total Income
Chistmas Songtime	20/12/2019	£10.00			
			2	1	£10.00
			1	2	£20.00
					£20.00
Home Alone	22/12/2019	£12.50			
			2	8	£100.00
			1	4	£50.00
					£50.00
The Polar Express	21/12/2019	£15.00			
			2	2	£30.00
			1	4	£60.00
					£60.00

Trait 1

- The report includes some of the required fields: Event Description, Number of table tickets, number of non-table tickets. However, it also includes fields that are not required: Seat Type ID, Event Date, Event Ticket Price. Total Income and the calculated field that generates the overall income in the group footer

Trait 2

- The table and non-table seats sold would show how many of each had been purchased per seat type. Learner has used grouping to achieve this rather than a calculation. That is fine in this instance

Trait 3

- The learner has made a reasonable attempt at presenting the report. The missing fields and missing/incorrect calculations are not penalised again here.
- A suitable title has been included (minus the spelling error). It is suitable for what the report is showing.
- The majority of field labels are suitable (exceptions Event Description, Seat Type ID)
- The pdf of the report (shown as a screenprint here for illustration purposes only) has no truncation. There has been an attempt to align data consistently though the total income field does not do this with as much accuracy as it should. The use of borders around the fields are also inconsistent

Assessment focus	Band 0	Band 1	Band 2	Band 3	Band 4	Max. mark
Activity 3: Queries and Report	0	1-3	4-6	7-9	10-12	12
	No rewardable material	<p>Queries and report include limited relevant fields.</p> <p>Queries and report include details of some criteria and calculations required, which may include inaccuracies.</p> <p>Presentation of data in queries and report will not aid readability and understanding of data.</p>	<p>Queries and report includes some relevant fields.</p> <p>Queries and report include accurate details of some criteria and calculations required.</p> <p>Presentation of data in queries and report will, in places, aid readability of and understanding of data.</p>	<p>Queries and report includes mostly relevant fields.</p> <p>Queries and report includes accurate details of most criteria and calculations required.</p> <p>Presentation of data in queries and report will mostly aid readability and understanding of data.</p>	<p>Queries and report includes all relevant fields only.</p> <p>Queries and report include accurate details of all criteria and calculations required.</p> <p>Presentation of data in queries and report will aid readability and understanding of data.</p>	

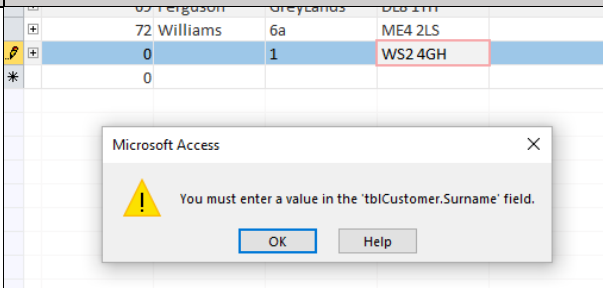
Trait	Band	Comments
1	3	The learner has included evidence for all three objects. The fields are fully appropriate in query A, mostly appropriate in query B and some are relevant for the report.
2	3	All three objects have been attempted. Query A has the correct sort and criteria (2 out of 2). Query B has 1 calculation correct, criteria for seat type and income is missing (1 out of 3). The report does show the number of table and non-table seats per event. The number of customers and total tickets purchased for each event are missing (2 out of 4) That is 5 correct out of 9. Classed as accurate details of most criteria and calculations.
3	3	Query A fully aids readability and understanding of data. Query B has a slight weakness in that the ordering of the columns does not aid readability. The report mostly aids readability though there are weaknesses in terms of a spelling error in the title, alignment of fields, the use of borders and label names. Overall though classes as mostly aids readability and understanding of data.
Band	3	Overall there is enough evidence to place at the top of Band 3. A good attempt has been made at completing all objects.
Mark	9	

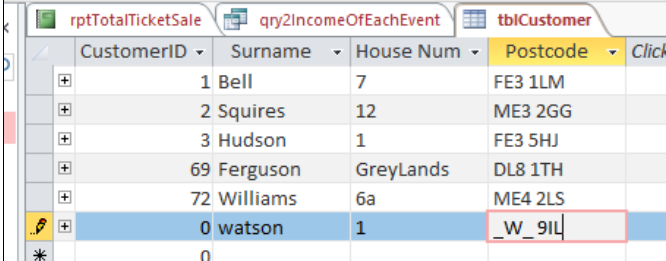
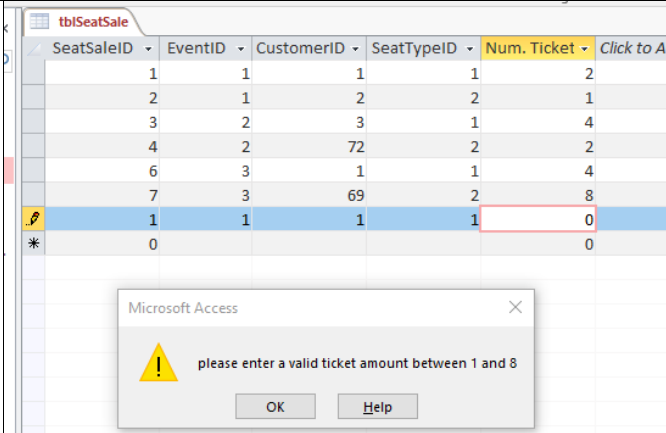
Activity 4 – Testing, Band 2, Marks 4

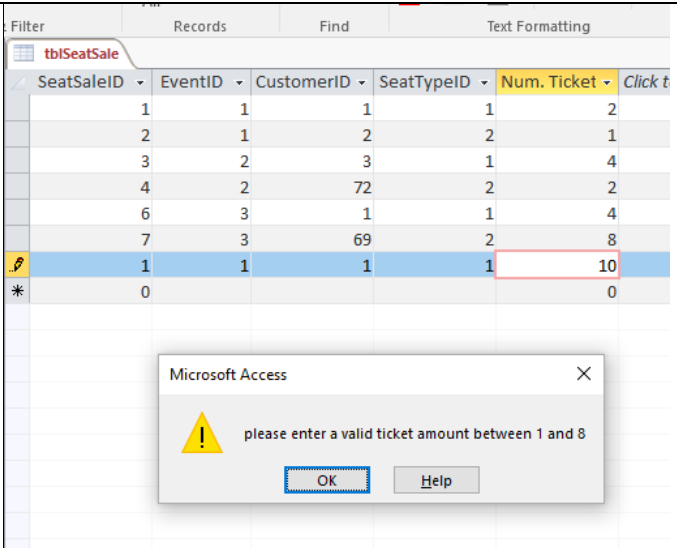
Customer table testing

The test specified in the task were

1. a record will not save without the surname being present
2. a record will not save if the postcode is not in the correct format
3. a record will not save if the event selected is invalid
4. a record will not save if the seat type is invalid
5. a record will not save if the number of tickets purchased is below the accepted range
6. a record will not save if the number of tickets purchased is above the accepted range

Test No	Type of test (N, R, X)	Test data	Expected results	Add screenprint(s) of the results of this test (and any retests) Ensure you show the test data used in the screenprint(s)	Only complete this column if the results are not as expected Explain the error If you correct the error explain how you have done it including screenprint(s)
1	R	Surname:	A pop up message saying "please enter a valid surname will appear	 A screenshot of a Microsoft Access table with columns for Surname, Postcode, Event, and Seat Type. The table contains data for Ferguson, Williams, and Williams. A validation error message is displayed over the table, stating: "Microsoft Access You must enter a value in the 'tblCustomer.Surname' field." The message has an OK button and a Help button.	
Type	Type of test is correct				
Data	Test data is relevant for the surname field but learner has not specified what test data will be used in the rest of the fields				
Expected	Expected result is very good				
Actual	Actual result does not match expected results. An ideal opportunity to discuss the fact the error message is not appropriate due to the lack of validation text for this field. The learner could have then corrected it and shown a re-test				

2	R	Postcode: 2WE 9IL	The database will not allow the postcode to be inputted as a format check has been used for the postcode field.		
Type		Type of test is correct			
Data		Test data is good for the postcode but where is the rest of the test data for the other fields?			
Expected		The expected results are fine. Unless the learner had used a validation rule to enforce this format then would not expect to see a specific error message given here			
Actual		Slightly strange in that the input mask should have prevented moving to the second character. However, they are relevant.			
5	R	Num.Tickets: 0	A pop up message will appear saying please enter a valid ticket number between 1 and 8.		
Type		Test type should have been extreme			
Data		Test data fine for the field specified but has not specified the test data for the rest of the fields.			
Expected		Expected results are good			
Actual		Actual results are good			

6	R	Num.Tickets: 10	A pop up message will appear saying please enter a valid ticket number between 1 and 8.	
Type		Test type should have been extreme		
Data		Test data fine for the field specified but has not specified the test data for the rest of the fields.		
Expected		Expected results are good		
Actual		Actual results are good		

Assessment focus	Band 0	Band 1	Band 2	Band 3	Max Marks
Activity 4: Structure Testing	0	1-2	3-4	5-6	6
	No rewardable material	<p>Testing is too narrow to confirm a working solution, including limited normal, erroneous and/or extreme data.</p> <p>Expected results are generic or mostly inaccurate. Test data may not be present</p> <p>Test results prove that that the database operates under some normal circumstances relevant to the scenario. Test result comments are present when errors have been found. These comments show a limited understanding of any errors that were found.</p>	<p>Testing is adequate to confirm a working solution, including some normal, erroneous and/or extreme data.</p> <p>Expected results are mostly accurate and based on identified test data but may lack detail.</p> <p>Test results prove that that the database operates under some normal circumstances and that the interface can cope with some erroneous and extreme data relevant to the scenario. Test result comments are present when errors have been found. These comments show partial understanding of any errors that were found.</p>	<p>Testing is thorough, including a range of normal, erroneous and extreme data.</p> <p>Expected results are specific and accurate based on identified test data.</p> <p>Test results prove that that the database operates under all circumstances relevant to the scenario. Test result comments are present when errors have been found. These comments show a clear understanding of any errors and how they were fixed.</p>	

Trait	Band	Comments
1	2	Testing is just enough to confirm a working solution. There has been erroneous and extreme testing carried out (even if misidentified at times). There was no normal testing for the learner to carry out in this activity. Two tests are missing. Bottom of band 2 is appropriate.
2	2	Expected results are mostly accurate and based on identified test data. The test data could have been more specific i.e. the data to be used in all fields. Classes as lacking detail
3	2	Test results prove that the database can cope with some extreme and erroneous data relevant to the scenario.
Band	2	Overall there is enough evidence to place the learner at the bottom of band 2.
Mark	3	

Activity 5 – Evaluation, Band 2, Marks 4

Overall I think my database structure has been ok. Firstly, I think my database has done an ok job of minimising data duplication. This is because I have set validation rules in some areas but not all so some duplication could happen. I think my database has meet the requirements of having two types of seat. This is because in my table, I make a lookup wizard so the only values that could be selected were 'table' or 'not table' and if they weren't entered, an error message would appear. My database hasn't really met the requirements of there needing to be at least one ticket purchased for each sale. This is because I only set the validation rule so that only 8 or less tickets can be bought per customer. However this means my database has met the requirements of a sale not being able to exceed eight tickets. This is because I set the validation rule so that only eight or less tickets can be purchased by doing '<=8'.

Assessment focus	Band 0	Band 1	Band 2	Band 3	Max. mark
Activity 5: Structure Evaluation	0	1-2	3-4	5-6	6
	No rewardable material	<p>Superficial understanding of relevant technical concepts shown with some inaccuracies.</p> <p>Limited or unsupported justification of the relational database structure selected.</p> <p>Limited links between aspects of the solution and the requirements of the scenario.</p> <p>Technical vocabulary is used but it is not used appropriately to support arguments.</p>	<p>Some accurate and relevant understanding of technical concepts shown.</p> <p>Some valid justification, which may lack support of the relational database structure selected.</p> <p>Some logical links between aspects of the solution and the requirements of the scenario but may lack clarity.</p> <p>Mostly accurate technical vocabulary is used to support arguments.</p>	<p>Accurate and detailed understanding of relevant technical concepts shown throughout.</p> <p>A valid and fully supported justification of the relational database structure selected.</p> <p>Makes logical coherent links between aspects of the solution and the requirements of the scenario throughout.</p> <p>Fluent and accurate technical vocabulary is used to support arguments.</p>	

Trait	Band	Comments
1	2	<p>There is nothing of relevance in terms of minimising data duplication. The learner should have been discussing how the structure (tables, relationships, relationship types, fields in tables) minimises duplication. No understanding has been shown at all in terms of this.</p> <p>The evaluation of the validation is better and does show the learner has some accurate and relevant understanding of technical concepts. They have also ensured some justification for their comments is present (for validation only not structure). The candidate discusses weaknesses i.e. not being able to get the validation right for the number of tickets. This does not match the evidence and could be flagger as potential malpractice.</p>
2	2	
3	2	
4	2	
Band	2	

Mark	4	There are some links with the scenario and technical vocabulary is fine for what they have discussed.
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Activity 6 – Interface and Functionality, Band 4, 12 Marks

The screenshot shows a web form titled 'Supplier Add Form' with a red icon of a document with a list. Below the title is a red instruction: 'Fields marked * must be completed'. The form contains four input fields: 'SupplierID' with a dropdown menu showing '(New)', 'Supplier' (empty), 'SupplierTelephoneNumber' (empty), and 'DeliveryDays' with the value '0'. Each of the three text input fields has a red asterisk to its right. At the bottom is a blue button labeled 'Save Record'.

Trait 1

Expectations

- Sensible title
- Instructions on how to use the form
- SupplierID disabled
- Labels useful (spaces between words etc)
- Field widths appropriate, not just default and not all the same size – relevant to the data that will be displayed in them
- Attempt at house style – alignment of fields, alignment of data in fields, different size font for title compared to data etc

Evidence

- The form has a sensible title that is relevant to its purpose
- The learner has included an instruction on how to use the form (along with asterisks)
- The SupplierID is disabled
- Only the supplier has a suitable label. The rest are default and unsuitable
- The field widths are not appropriate – they have been left as their default. They should have been sized individually to suit the data that would be input/display
- There is a basic attempt at a house style. The form title is larger than the fields.

Trait 2

There was nothing to assess in terms of trait 2 as this form did not include any criteria/calculations

This image shows the same 'Supplier Add Form' interface overlaid on a grid. The grid is used to analyze the layout and alignment of the form elements. The title 'Supplier Add Form' is in a larger font than the field labels. The instruction 'Fields marked * must be completed' is in red. The input fields are of different widths, but the 'Supplier' field is the widest. The 'Save Record' button is centered at the bottom. The grid lines help to see the alignment of the text and the positions of the asterisks.

mcrSaveValidate

```

If IsNull([Supplier]) Then
    MsgBox
        Message Please enter a supplier
        Beep Yes
        Type None
        Title

End If

If IsNull([SupplierTelephoneNumber]) Then
    MsgBox
        Message Please enter a telephone number
        Beep Yes
        Type None
        Title

End If

If IsNull([DeliveryDays]) Then
    MsgBox
        Message Please enter the number of days for a delivery
        Beep Yes
        Type None
        Title

Else If [DeliveryDays]<1 Then
    MsgBox
        Message Please enter a valid number of days for delivery
        Beep Yes
        Type None
        Title

```

Trait 3

- The automation method chosen is appropriate
- All of the fields include a presence check to ensure the supplier's name, telephone number and delivery days are present
- The number of days delivery has an appropriate range check (between 1 and 5)
- The record is saved
- A save message is displayed
- The only action not included is clearing the form after the save has taken place
- However, the logic is wrong. The save would be attempted regardless of whether there are errors because validation uses separate if..then conditions as opposed to if...then...elseif...else throughout

```

Else If [DeliveryDays]>5 Then
    MsgBox
        Message Please enter a valid number of days for delivery
        Beep Yes
        Type None
        Title

End If
RunMenuCommand
    Command SaveRecord
MsgBox
    Message The record was successfully saved
    Beep Yes
    Type None
    Title

```

Add New Action

Stock Orders

ProductID: 1

CostPrice: £12.00

SellingPrice: £17.00

NumberInStock: 15

Number Orde: *

New stock level: [disabled]

Value of Order: [disabled]

Total Stock Value: [disabled]

Previous Record Next Record

Save Record

Trait 1

Expectations

- Sensible title
- Instructions on how to use
- Can select the product
- Can input the number delivered
- These existing fields present:
 - costPrice
 - sellingPrice
 - numberInStock
- These generated fields present (not looking at the calculations themselves in this trait)
 - new number in stock
 - overall product cost
 - overall sales value
- All fields disabled other than the product combo box and the number delivered
- Labels useful
- Field widths appropriate
- Layout good

Evidence

- The form has title that is relevant to its purpose
- No instructions have been given on how to use the form other than an asterisk
- The product has a combo box, and the number delivered can be input
- The three non-data entry existing fields are present
- The three generated fields are present
- All non-data entry fields have been disabled
- The new fields have suitable labels. Existing fields do not
- The field widths are not suitable for the data in then. The existing fields have been left at default (and are too wide) and the new fields are too wide
- There is a basic attempt at a house style. The form title is larger than the fields. The form also matches the supplier form, title in same place, use of disabled fields, asterisk, placement of buttons

ProductID	ProductID
CostPrice	CostPrice
SellingPrice	SellingPrice
NumberInStock	NumberInStock
Number Order	Unbound
New stock level	$=([NumOrder]+[NumberInStock])$
Value of Order	$=([NumOrder]*[CostPrice])$
Total Stock Value	$=([NumOrder]*[SellingPrice])$
<div>Previous Record</div> <div>Next Record</div> <div>Save Record</div>	

Trait 2

- The new stock level has been calculated correctly
- The overall selling price has been calculated correctly
- The overall cost price has been calculated correctly
- The product has a combo box so can be potentially selected however, the learner has not shown how the ProductID box has been automated. So, it is impossible to tell whether the method used would allow a ProductID to be selected and whether it would update the contents of the form. It probably would not as the ProductID is an AutoNumber and the combo box is bound to the ProductID. This would prevent the user from selecting a product. The learner needed to use an unbound combo box that updated the record after selection. Two methods are described in the Lead Examiner report and shown in the database solution.

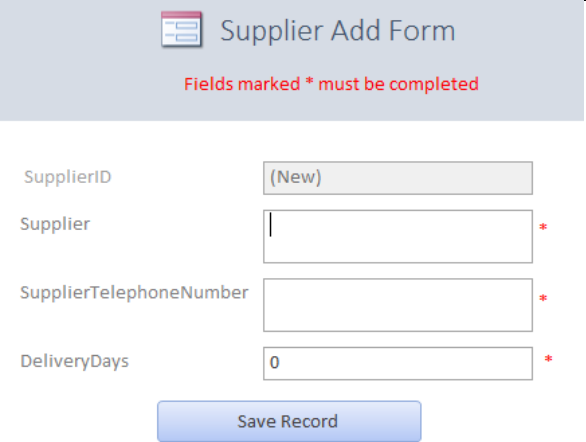
Assessment focus	Band 0	Band 1	Band 2	Band 3	Band 4	Max. mark
Activity 6:	0	1-4	5-7	8-10	11-14	14
Interface and Functionality	No rewardable material	<p>Interface is unclear or provides limited information and there are inconsistencies and inaccuracies in formatting, so a user would experience difficulty in using the database and making maintenance by a third party difficult.</p> <p>Interface may not have details of criteria/calculations required, or these may include inaccuracies.</p> <p>Interface uses minimal validation, checking procedures and automation resulting in a system with limited capacity to reduce errors or handle unexpected events.</p> <p>Interface may not be fully functional and/or may have major errors that prevent the interface from meeting the given criteria.</p>	<p>Interface is clear but there are some inconsistencies and inaccuracies in formatting allowing a user to use the database with minor difficulties and allowing maintenance by a third party with minor difficulties.</p> <p>Interface includes accurate details of some criteria/calculations required.</p> <p>Interface uses some accurate validation, checking procedures and automation, resulting in a system that minimises the most common errors and handles some unexpected events.</p> <p>Interface is functional and meets some of the given criteria with minimal errors.</p>	<p>Interface is clear with minimal inconsistencies and inaccuracies in formatting allowing a user to use the database easily and allowing maintenance by a third party with minor difficulties.</p> <p>Interface includes accurate details of most criteria/calculations required.</p> <p>Interface uses accurate validation, checking procedures and automation, resulting in a system that minimises the majority of errors and handles most unexpected events.</p> <p>Interface is functional with minimal errors and meets the given criteria.</p>	<p>Interface is clear and intuitive, consistently and accurately formatted allowing a user to easily use the database and allowing it to be easily maintained by a third party.</p> <p>Interface includes accurate details of all criteria/calculations required.</p> <p>Interface uses accurate validation, checking procedures and automation throughout, resulting in a robust system that minimises errors and handles unexpected events.</p> <p>Interface is fully functional and fully meets the given criteria.</p>	

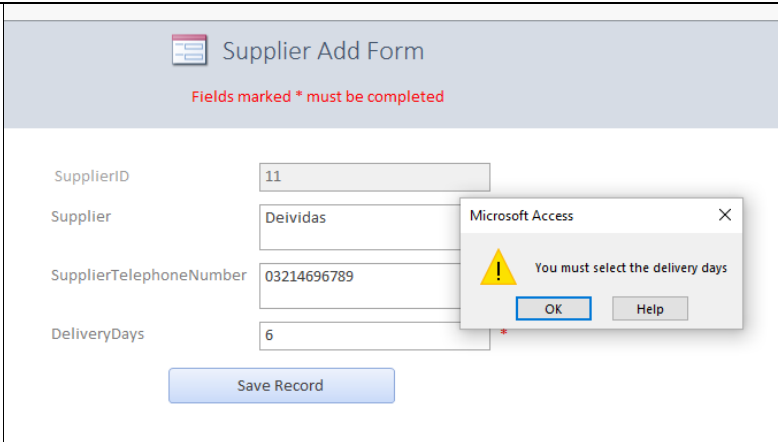
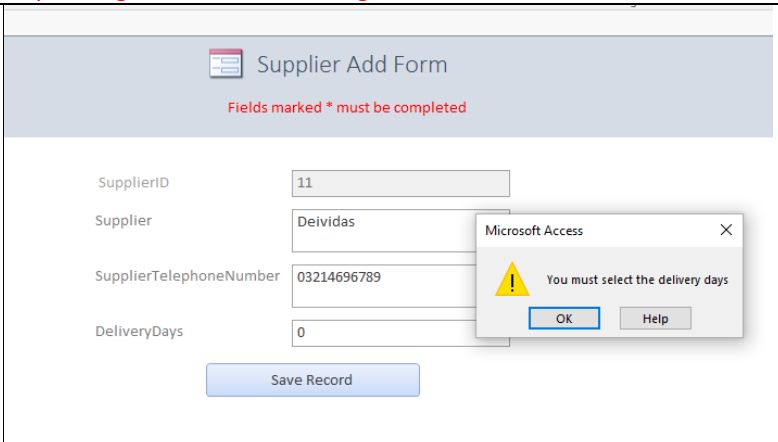
Trait	Band	Comments
1	4 Bottom	The forms are mostly user friendly. Both have relevant titles, there are some input aids present across the two (combo for product, disabled fields, instructions, asterisks), some attempt at a house style. The choice of field widths and labels are weak, however. The evidence is band 4 but at the bottom end due to the weaknesses.
2	4 Top	The correct criteria are present for all three calculations. There were no criteria in this paper.
3	4 Bottom	A very good attempt at automation is present. However, there are weaknesses. The save for the supplier form would be attempted regardless of errors and the form does not clear. Whilst the calculations would update with the input of the number delivered, there is no real proof that the combo box works as a method of selecting a product and the contents of the form updating to match it. Overall there has been a good attempt and it is worthy of entry into band 4.
4	4 Middle	Taking traits 1 to 3 into account there is enough evidence to suggest the functionality would be best place in the middle of band 4.
Band	4	Overall there is enough evidence to place the candidate in the middle of band 4.
Mark	12	

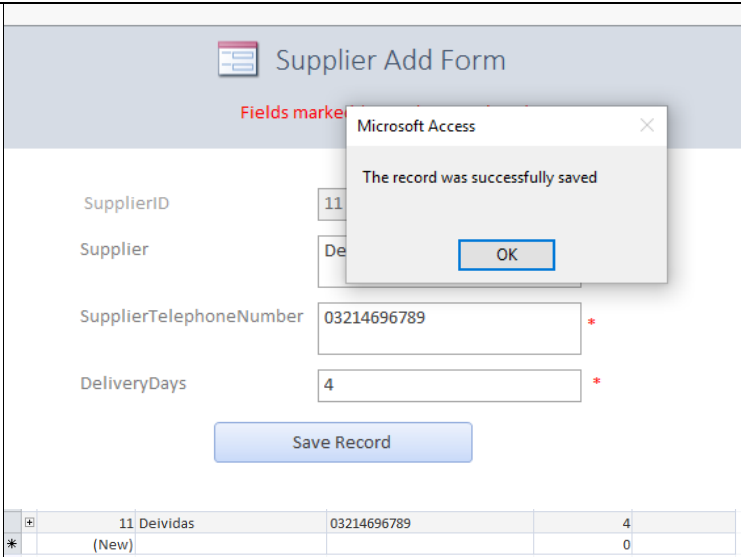
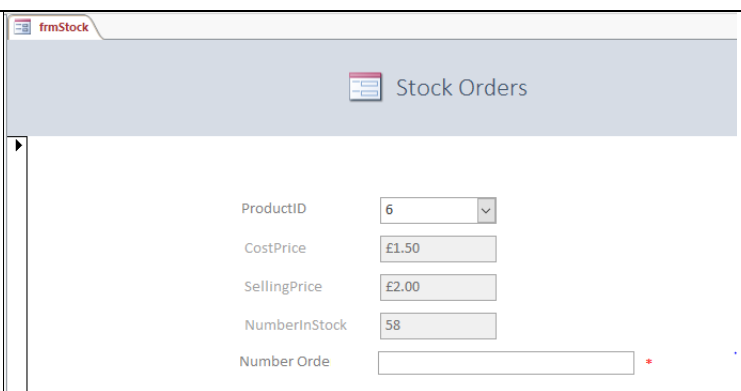
Activity 7 – Interface Testing, Band 3, 5 Marks

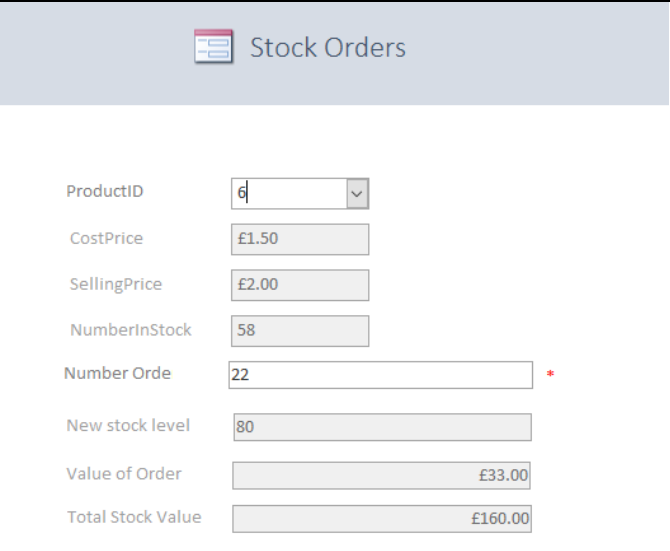
These are the tests the learners were asked to carry out

1. the supplier form is ready for data entry when the form opens
2. the delivery days cannot be above the top of the range
3. the delivery days cannot be below the bottom of the range
4. a record will save in the supplier table if the supplier details are present and valid
5. after the product has been selected and the number delivered input these details should be displayed:
 - cost price
 - selling price
 - current number in stock
6. after the product has been selected and the number delivered input these details should be calculated and displayed:
 - the new number in stock
 - the overall cost for the products in stock
 - the overall sales value for the products in stock.

Test No	Type of test (N, R, X)	Test data	Expected results	Add screenprint(s) of the results of this test (and any retests) Ensure you show the test data used in the screenprint(s)	Only complete this column if the results are not as expected
1	N	n/a	the form will be empty and ready for data to be easily entered		
Type		Type of test is correct			
Data		Test data is fine in this instance			
Expected		Expected results are good			
Actual		Actual results are good			

2	N	Delivery days 6	The form will produce an error message asking the user to enter a valid number of delivery days.	 <p>The screenshot shows the 'Supplier Add Form' with fields for SupplierID (11), Supplier (Deividas), SupplierTelephoneNumber (03214696789), and DeliveryDays (6). A Microsoft Access error dialog box is displayed over the form, stating 'You must select the delivery days' with OK and Help buttons. A red asterisk is visible next to the DeliveryDays field.</p>	
Type		Type of test is incorrect. It is extreme testing			
Data		Test data is specific for the delivery days field. However, there should be test data present for all fields.			
Expected		The expected results could be more specific in terms of what actually does get produced.			
Actual		Whilst the results are relevant an opportunity has been missed to discuss and amend the error message. It is not appropriate. Firstly, the delivery days cannot be selected and secondly the user would not know what was wrong or how to put it right i.e. what is the range?			
3	N	Delivery days 0	The form will produce an error message asking the user to enter a valid number of delivery days.	 <p>The screenshot shows the 'Supplier Add Form' with fields for SupplierID (11), Supplier (Deividas), SupplierTelephoneNumber (03214696789), and DeliveryDays (0). A Microsoft Access error dialog box is displayed over the form, stating 'You must select the delivery days' with OK and Help buttons. A red asterisk is visible next to the DeliveryDays field.</p>	
Type		Type of test is incorrect. It is extreme testing			
Data		Test data is specific for the delivery days field. However, there should be test data present for all fields.			
Expected		The expected results could be more specific in terms of what actually does get produced.			
Actual		Whilst the results are relevant an opportunity has been missed to discuss and amend the error message. It is not appropriate. Firstly, the delivery days cannot be selected and secondly the user would not know what was wrong or how to put it right i.e. what is the range?			

4	N	Supply Id 11 Supplier Deividas Telephone 0321469789 Delivery days 4	A message confirming the record save will be displayed and the record will be added to the table.		
Type		Type of test is correct			
Data		Test data is specific for all fields			
Expected		Expected results are food			
Actual		Actual results are week i.e. the message covers the test data.			
5	N	product ID 6	When the id is selected from the combo box the relevant details such as price etc. will be displayed in their relevant textboxes.		
Type		Type of test is fine			
Data		Test data is specific but does not include the fact that the Number Ordered was going to be left blank			
Expected		Expected results are not specific. The learner should have specified what data would appear rather than being vague with relevant details will be displayed			
Actual		Actual results are relevant			

6	N	product ID 6 Number ordered 22	When the order number is entered the relevant values will be calculated correctly.		
Type		Type of test is correct			
Data		Test data is good			
Expected		Expected results are weak. They are relevant but should have specified exactly what values would be shown			
Actual		Actual results are relevant			

Assessment focus	Band 0	Band 1	Band 2	Band 3	Max Marks
Activity 7: Interface Testing	0	1-2	3-4	5-6	6
	No rewardable material	<p>Testing is too narrow to confirm a working interface, including limited normal, erroneous and/or extreme data.</p> <p>Expected results are generic or mostly inaccurate. Test data may not be present</p> <p>Test results prove that that the database operates under some normal circumstances relevant to the scenario. Test result comments are present when errors have been found. These comments show a limited understanding of any errors that were found.</p>	<p>Testing is adequate to confirm a working interface, including some normal, erroneous and/or extreme data.</p> <p>Expected results are mostly accurate and based on identified test data but may lack detail.</p> <p>Test results prove that that the database operates under some normal circumstances and that the interface can cope with some erroneous and extreme data relevant to the scenario. Test result comments are present when errors have been found. These comments show partial understanding of any errors that were found.</p>	<p>Testing is thorough, including a range of normal, erroneous and extreme data.</p> <p>Expected results are specific and accurate based on identified test data.</p> <p>Test results prove that that the database operates under all circumstances relevant to the scenario. Test result comments are present when errors have been found. These comments show a clear understanding of any errors and how they were fixed.</p>	

Trait	Band	Comments
1	2	Testing is adequate to confirm a working solution. There has been normal and extreme testing carried out (even if misidentified at times). There was no erroneous testing for the learner to carry out in this activity. All of the tests have been carried out.
2	2/3	Expected results are generally specific and accurate though there are slight weaknesses with the test data and the expected results could have been more specific at times.
3	2	Test results prove that the database can cope with some normal and extreme data relevant to the scenario. The opportunity to identify and correct the weakness in the actual results of the range check was missed.
Band	3	Overall there is enough evidence to place the learner at the bottom of band 3.
Mark	5	

Activity 8 – Interface Evaluation, Band 2, 4 Marks

The quality of my database is high this is because of the usability of the databases. I did this by creating a form which was ready for data entry by making the values unbound so that the user can enter data into the form. I then created a range check to meet the requirements by making the delivery days only valid when between 1 and 5. Which means that, the user cannot enter a figure below 1 or above 5 making the data valid. The form also saves correctly without any errors.

Product Delivery Form

I created a form for the product delivery which allowed the user to select the product and number delivered. I then went on the design view to allow the cost price, selling price and current number in stock to be displayed. After the product had been selected and the number delivered was entered I created a calculated field in the design view of the table which calculated the new number of stock, overall cost and the overall sales value. These calculations allowed the user to calculate the required fields to find out how much stock was left once the order was delivered by subtracting the number delivered by the number in stock, the overall cost of the products in stock by multiplying the cost price by the number delivered. And the overall sales value by multiplying the selling price by the number delivered in brackets then subtracting from the overall cost to find the over sales value.

This data is displayed on the form when the user enters the number delivered and then it calculates these fields to give the values. I created a simple interface for both forms to make them user friendly and to improve the performance of the form as well. I did this by adding buttons to the forms to allow the user to navigate through the records, backwards and forwards and also allowing them to go to the first and last records.

Assessment focus	Band 0	Band 1	Band 2	Band 3	Max. mark
Activity 8: Interface Evaluation	0	1-2	3-4	5-6	6
	No rewardable material	<p>Superficial understanding of relevant technical concepts shown with some inaccuracies.</p> <p>Limited or unsupported justification of the quality, performance and usability of the interface.</p> <p>Limited links between aspects of the solution and the requirements of the scenario.</p> <p>Technical vocabulary is used but it is not used appropriately to support arguments.</p>	<p>Some accurate and relevant understanding of technical concepts shown.</p> <p>Some valid justification, which may lack support of the quality, performance and usability of the interface.</p> <p>Some logical links between aspects of the solution and the requirements of the scenario but may lack clarity.</p> <p>Mostly accurate technical vocabulary is used to support arguments.</p>	<p>Accurate and detailed understanding of relevant technical concepts shown throughout.</p> <p>A valid and fully supported justification of the quality, performance and usability of the interface.</p> <p>Makes logical coherent links between aspects of the solution and the requirements of the scenario throughout.</p> <p>Fluent and accurate technical vocabulary is used to support arguments.</p>	

Trait	Band	Comments
1	2	The supplier form has been evaluated (does not say this but can see the first paragraph refers to this. Some accurate and relevant understanding of technical concepts has been shown. The discussion of unbound fields does not entirely make sense, but they are correct when saying this was how they ensure the form was ready for data entry. The discussion about the validation could have been expanded. What about an error message to help the user understand what the error is and how to correct it? Missed opportunity to discuss the inclusion of this or the fact that it should have been included.
2	2	
3	2	
4	2	
Band	2	The evaluation of the delivery form is more descriptive, there is nothing of any value in terms of what the calculations mean to the user. For example, do not have to manually calculate, are 100% accurate (providing the formulae is correct) etc.
Mark	4	
		The evaluation does not fully match the screenprints shown, particularly in terms of the supplier form being unbound when the form itself is clearly bound. However, there is not enough to suggest malpractice may have occurred.
		Overall there is enough evidence to award the top of band 2.